

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Tuesday, August 07, 2018
WELL WORK PLUGGING PERMIT
Vertical Plugging

HG ENERGY, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re:

Permit approval for 6 47-043-01769-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

Operator's Well Number: 6

Farm Name: HORSE CREEK TRACT C

U.S. WELL NUMBER: 47-043-01769-00-00

Vertical Plugging Date Issued: 8/7/2018

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

1) Date June 11	, 2018
2)Operator's	<u> </u>
Well No. Horse Creek Tra	act "C" # 6
3) API Well No. 47-0	43 - 01769

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

	APPLICATION FOR A PERI	TI TO PHOG AND ABANDON
4)	Well Type: Oil x / Gas x / Liquid	d injection/ Waste disposal/
	(If "Gas, Production or Und	derground storage) Deep/ Shallow_X
5)	Location: Elevation 930'	Watershed Laurel Fork
	District Duval	County Lincoln Quadrangle Garrett's Bend 7.5'
6)	Well Operator HG Energy, LLC	7) Designated Agent Diane White
	Address 5260 Dupont Road	Address 5260 Dupont Road
	Parkersburg, WV 26101	Parkersburg, WV 26101
8)	Oil and Gas Inspector to be notified	9)Plugging Contractor
Ο,	Name Jeffery L. Smith	Name To Be Determined Upon Approval of Permit
	Address 5369 Big Tyler Road	Address
	Cross Lanes, WV 25313	
	** See Attached Sh	neet **
		OF RECEIVED
		Office of Oil and Gar
		JUL 12 13:3
		WV Department of Environmental Protection
		- Totection
	fication must be given to the district of can commence.	il and gas inspector 24 hours before permitted
∛ork	order approved by inspector	hut Date (6-21-18

08/10/2018

Form WW-4(B) Rev. 2/01

1)	Date:	June 11, 2018	
2)	Operator's Well Number		
	Horse Co	reek Tract "C" # 6	

State

3) API Well No:

47 - 043 -

County

1769

Permit

STATE OF WEST VIRGINIA

				OF OR AND OA	_					
				OF OIL AND GA						
		APPLICAT	ION FOR A P	ERMIT TO PLU	G AND ABA	ANDON				
i) WELL TYPE:		-	X Gas _	X Liquid In		Waste Di	-			
		B (If "Gas",	Production	Undergro	ound Storage	Deep	Sh	allow X		
n Location		E1	0301	444 .		Laur-LT 1				
5) LOCATION:		Elevation:	930'		ershed:	Laurel Fork	Oundress	Communic P		
		District:	Duval	Cou	шу:	Lincoln	Quadrangie:	Garrett's Ber	<u>na /.5"</u>	
) WELL OPERAT	rop.	HG Fre	ergy LLC	308122	7) DESIGN	NATED AGENT	Diane V	Vhite.		
Address			upont Road	300122	. ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Address		upont Road		
			burg, WV 2610	1	•			burg, WV 26	101	
					•	•				
OIL & GAS INS	PECTOR TO BE NOTIFIE	:D			9) PLUGG	ING CONTRAC	CTOR			
Name	<u>Jef</u>	ffery L, Smith			Name	To Be Determ	ined Upon A	pproval of Pe	ermit	
Address	530	69 Big Tyler Ro	ad		Address					
	<u>Cn</u>	oss Lanes, WV	25313							
lug #2 - Approx 190	70 - 1800									
ocated at 4 1/2" cas ug #3 - 975' - 875' ocated at elevation ug #4 - 325' - 0' ocated at 8 5/8" casi	ing stub ing shoe, fresh water to surfa 8, 1/2" height numbering Regular Neat Cement	ace				asing can not be re or metal pipe, 30° a		rate for plug pla	acement.	
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PENNZOIL COMPANY Well Completion Report

LODGE CREEK TRACT "C" Hall to 6 Now Hall Y Old Wall
Lease: HORSE CREEK TRACT "C" Well No. 6 New Well X Old Well
District: Duval County: Lincoln State: West Virginia
Pool Name: Griffithsville Northeast Pool No. 57 Elevation 921.22 KB:QL
Producing Formation: Berea Depth: From 2413' to 2433'
Date Drilled In: April 15, 1977 Pays: Oil: From 2413' to 2433' to
Original Total Depth: 2476' Gas: From 2413' to 2433'
Plug Back Depth: 2456 From to
<u>Production</u> <u>Initial</u> <u>Present</u> <u>After Fracture</u>
0il
Gas
8-5/8" Surface Csg. set @ 288' KB:GW Gr. H-40 New:Used Wt. 20# Collars
Cement Reg. Neat Amount 175 Sacks Plug Down @ 9:00 AM:PXX Date 4/11/77
Production Csg. set @2476.41 KB: GK Gr. ERW New: Used Wt. 10.50# Collars
Cement 50/50 Posmix Amount 75 Sacks Plug Down 0 6:00 AM:PM Date 4/15/77
Logged by: Basin Surveys Date: April 15, 1977
Logs Used: Gamma Ray-Comp. Density-Caliper
Perforated by: McCullough Date: April 21, 1977
Perforations: 2420'-2425' - 4 holes/ft 20 holes
Treatment Data
Breaking Fluid F.R. N.E. Fluid Sand Acid Solvent Gel Agent Loss Agent Agent
Lease Type Crude 20/40 15% HCl Parathin 15-N
Amount 558 26,000 500 1 drum 2
Breakdown Pressure: 2000 Treating Pressure: Max. 2700 Min. 2500 Avg. 2600 Office of Oil and Gas
Avg. Inj. Rate 30.0 BPM ISIP 1550 @ 12:40 AM:PM 5 min. SIP 1300 JUL 1 2 2018
10 min. SIP 1200 15 min. SIP 1150 Other Wy Department
10 min. SIP 1200 15 min. SIP 1150 Other WV Department of Environmental Protection
Service Company: Halliburton HHP 1912
By: Michael McCown Date Fractured: 4/21/77
08/10/2018

CONFIRMING COMPLETION TICKET

** _{10 **}			IPLETION TI	CKET	
COMPANY REMARKS	WRS COMPL	ETION REPORT	_38.15.00	81.50.00 PE	PAGE 1 RMIT 1769
	W VA LINCO		S 22000		WELL CLASS D DO
	PENNZOIL C		JVAL	6 HORSE CREE GRIFFITH	
	OPER, ELEV.	CONTRACTOR DISTRIC	T model out the transfer of the	API 47-043-	- 21769-00
	8 4/11/197		77 ROTARY	EXPERMIT OR WELL, I.D.	OIL
	2472_BERE E DID 2476	FORMESSACIONAL	DNTRACTOR SOMESTIMES		
	DTD 2476			FM/TD LO T.D. ISSUED TO T.D. ISSUED	MISS /T.D. 1955/2007/2007
	CSG 8 5/8	and management and a	ASING DATA 175 4 1/2	a 2476 W/	75 01 02
	036 8 376		IGN DESCRIP		.,
	TR-C				
***************************************		11	NITIAL POTE	NTIAL	
	IPU 12BO P SOFR ACID NOT RP	ERF	CFD		004
	TYPE FORM	ATION DEPTH	SUBSEA FO	RMATION DEPTH	H SUBSEA
	SPL L LI	ME 1694 JUN 1935	1022-	LIME 1628	
	SPL WEIR SPL BL LI BB IN	2058	1145- BE 810- BBG 1065-	REA 2413 LIME 191	3 1500- 7 1004-
	SPL BWEIR	2125	1212- BBE	REA 2433	3 1520-
	9		TION TEST D	ATA	
	PTU 1880 BEREA P	ERF		OOLDS SAND	003
	SOFR		58BBLS 260 OOGALS	OOLBS SAND 20/40 SD	
	INT NOT RP			15%	
		MIS	CELLANEOUS		
	Prohibited A P M M M M M M M M M M M M M M M M M M	ST ALBANS		Α(Office of Oil and
	, q				JUL 1 2 201
					Environmental Protect
					- Poteo

WW-4A Revised 6-07

1) Date:	June 11, 2018	
2) Operator	's Well Number	
Horse Creek Tract	t "C" # 6	

3) API Well No.: 47 -

043 - 01769

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4)	Surface Own	er(s) to be served:	5) (a) Coal Operator	
	(a) Name	Keith E. Tyler, Sr.	Name	NA
	Address	P. O. Box 172	Address	
		Culloden, WV 25510		
	(b) Name	Larry & Sue Carroll	(b) Coal Own	ner(s) with Declaration
	Address	P. O. Box 186	Name	NA
		Sod, WV 25564	Address	
	(c) Name		Name	
	Address		Address	
6)	Inspector	Jeffery L. Smith	(c) Coal Less	see with Declaration
	Address	5369 Big Tyler Road	Name	NA
		Cross Lanes, WV 25313	Address	
	Telephone	681-313-6743		
			<u></u>	
_				

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

RECEIVED Office of Oil and Gas Well Operator HG Energy, LLC OFFICIAL SEAL JUL 1 2 2018 NOTARY PUBLIC STATE OF WEST VIRGINIA Diane White Diane White JEANINE M. GAUTHIERTS:
HG Energy, LLC
5280 Duponi Road
Parkersburg, West Virginia 26101
My Commission Expires Aug 30, 2022 Agent 5260 Dupont Road Address Environmental Protection Parkersburg, WV 26101 304-420-1119 Telephone Subscribed and sworn before me this 11th My Commission Expires

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

WW-9 (5/16)

API Number 47 -	043	_01769	
Operator's Well N	0.		

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL &	RECLAMATION PLAN
Operator Name_HG Energy, LLC	OP Code 49449748
Watershed (HUC 10) Laurel Fork Qu	adrangle Garrett's Bend 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the p. Will a pit be used? Yes No	
If so, please describe anticipated pit waste: No fluids are anticipate	d with plugging the well, if there are any, they'll be disposed of off site
Will a synthetic liner be used in the pit? Yes No	If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide a comp Underground Injection (UIC Permit Number Reuse (at API Number	r)
Off Site Disposal (Supply form WW-9 for d	isposal location)
Will closed loop system be used? If so, describe: No	
Drilling medium anticipated for this well (vertical and horizontal)? Air	
-If oil based, what type? Synthetic, petroleum, etc. NA	
Additives to be used in drilling medium? NA	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, o	etc. NA
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA
-Landfill or offsite name/permit number? NA	
Permittee shall provide written notice to the Office of Oil and Gas of an West Virginia solid waste facility. The notice shall be provided within 2 where it was properly disposed.	
I certify that I understand and agree to the terms and condition on April 1, 2016, by the Office of Oil and Gas of the West Virginia Deprovisions of the permit are enforceable by law. Violations of any term or regulation can lead to enforcement action. I certify under penalty of law that I have personally examine application form and all attachments thereto and that, based on my inquesting the information, I believe that the information is true, accurate, and communication is true, accu	epartment of Environmental Protection. I understand that the or condition of the general permit and/or other applicable law
Company Official Signature Diane White	JUL 1-2 2018
Company Official (Typed Name) Diane White	140.
Company Official Title Agent	Environmental Protection
Subscribed and sworn before me this 11th day of	, 20 18
Searce M. Sauthon	Notary PublicICIAL SEAL
My commission expires Que 30 2022	NOTARY PUBLIC STATE OF WEST VIRGINIA JEANINE M. GAUTHIER HG Energy, LLC 5260 Dupont Road Parkersburg, West Virginia 26101 My Commission Expires Aug. 30, 2022

		Operator's V	Well No
Proposed Revegetation Treatn	nent: Acres Disturbed 1.	0 Preveg etation p	он
Lime	Tons/acre or to correct	to pH 6.5	
Fertilizer type 10-20	0-20	<u> </u>	
Fertilizer amount	500	lbs/acre	
Mulch_Straw	2	Tons/acre	
		Seed Mixtures	
Ten	aporary	Perm	anent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Photocopied section of involv		1	
Plan Approved by: Je Comments: All comments:	<i>_</i>	trol to be removed	prior to
		<u> </u>	Office /
			Office /
Title: Oil & Gay Z	·	Date: 6-21-18	Office / JUI Environmente

WW-9- GPP Rev. 5/16

	Page	1 of 2
API Number	47 - 043	- 01769
Operator's We	ell No.	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

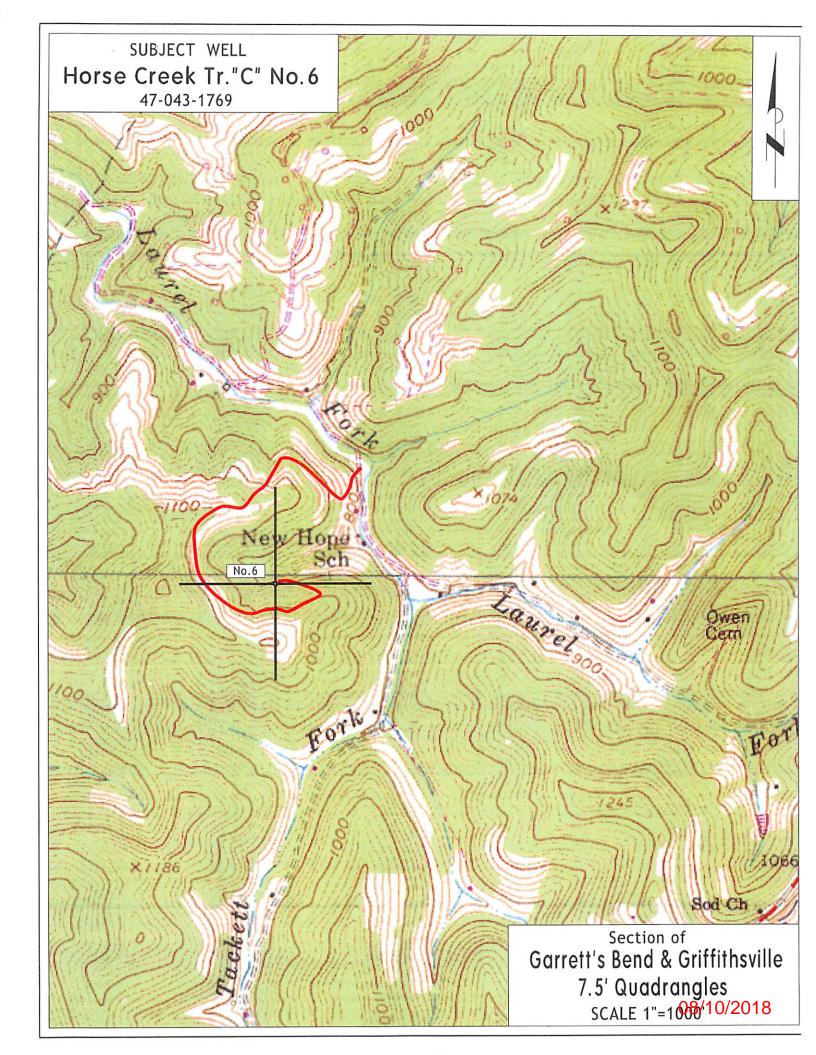
GROUNDWATER PROTECTION PLAN				
Operator Name: HG Energy, LLC				
Watershed (HUC 10): Laurel Fork	Quad: Garrett's Bend 7.5'			
Farm Name:				
 List the procedures used for the treatment and discharge groundwater. 	of fluids. Include a list of all operations that could contaminate the			
NA				
Describe procedures and equipment used to protect ground	ndwater quality from the list of potential contaminant sources above.			
NA				
List the closest water body, distance to closest water b discharge area.	oody, and distance from closest Well Head Protection Area to the			
NA				
	×			
4. Summarize all activities at your facility that are already i	regulated for groundwater protection.			
NA	PECEIVED Office of Oil and Gas			
	JUL 1 2 2018			
	WV Department of Environmental Protectio			

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

WW	-9-	GPP
Rev.	5/1	6

Page 2 of 2
API Number 47 - 043 - 01769
Operator's Well No.

	operators to the reco
IA	
Provide a statement that no waste material will be used for or	deicing or fill material on the property.
A	
Describe the groundwater protection instruction and training provide direction on how to prevent groundwater contaminates.	ing to be provided to the employees. Job procedures shall ation.
Α	
Provide provisions and frequency for inspections of all GPF	P elements and equipment.
A	Office of Oil an
	JUL 12 2
	WV Departmental Pro
	Environmental Pro
gnature: Diane White	
ite:6-11-18	



WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LO	CATION FORM: GPS					
_{API:} 47-043-01769	WELL NO.:_6					
FARM NAME: Horse Creek Tr. "c" No. 6						
RESPONSIBLE PARTY NAME: HG Energy, LLC						
COUNTY: Lincoln	bistrict: Duv	/al	_			
QUADRANGLE: Garrett's E	Bend 7.5'		_			
SURFACE OWNER: Larry &	Sue Carroll					
ROYALTY OWNER: HG Ene		*	_			
UTM GPS NORTHING: 42339. UTM GPS EASTING: 4206	26 (NAD 83)	(928')				
UTM GPS EASTING: 4206	20 GPS ELEVATI	_{ON:} 283m				
The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters. 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS: Post Processed Differential						
	me Differential					
Mapping Grade GPS X: Post						
	l-Time Differential ppography map showing the we	ll location.	RECEIVED Office of Oil and Gas			
I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas. Agent 6/11/18						
Diane White	Agent		Protection			
Signature	Title	Date				